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SEQUENCE LISTING

<110> Consortium for electrochemical industry GmbH

<120> Feedback-resistant homoserine transsuccinglass

<130> CO10217

<140>

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<160> 24

<170> PatentIn Ver. 2.0

<210> 1

<211> 930

<212> DNA

<213> Escherichia coli

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<221> CDS

<222> (1) .. (930)

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<301> Blattner, F. R.

<302> The complete genome sequence of Escherichia coli K-12.

<303> Science

<304> 277

<305> 5331

<306> 1453-1474

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<307> 1997

<400> 1

atg ccg att cgt gtg ccg gac gag cta ccc gcc gtc aat ttc ttg cgt 48
Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg
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gaa gaa aac gtc ttt gtg atg aca act tct cgt gcg tct ggt cag gaa 96
Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu

20 25 30

att cgt cca ctt aag gtt ctg atc ctt aac ctg atg ccg aag aag att 144
Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
35 40 45

gaa act gaa aat cag ttt ctg cgc ctg ctt tca aac tca cct ttg cag 192
Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
50 55 60

gtc gat att cag ctg ttg cgc atc gat tcc cgt gaa tcg cgc aac acg 240
Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
65 70 75 80

ccc gca gag cat ctg aac aac ttc tac tgt aac ttt gaa gat att cag 288
Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
85 90 95

gat cag aac ttt gac ggt ttg att gta act ggt gcg ccg ctg ggc ctg 336
Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu

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100	105	110	
gtg gag ttt aat gat gtc gct tac tgg ccg cag atc aaa cag gtg ctg			384
Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu			
115	120	125	
gag tgg tcg aaa gat cac gtc acc tcg acg ctg ttt gtc tgc tgg gcg			432
Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala			
130	135	140	
gta cag gcc gcg ctc aat atc ctc tac ggc att cct aag caa act cgc			480
Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg			
145	150	155	160
acc gaa aaa ctc tct ggc gtt tac gag cat cat att ctc cat cct cat			528
Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His			
165	170	175	
gcg ctt ctg acg cgt ggc ttt gat gat tca ttc ctg gca ccg cat tcg			576
Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser			
180	185	190	
cgc tat gct gac ttt ccg gca gcg ttg att cgt gat tac acc gat ctg			624
Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu			
195	200	205	
gaa att ctg gca gag acg gaa gaa ggg gat gca tat ctg ttt gcc agt			672
Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser			
210	215	220	

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aaa gat aag cgc att gcc ttt gtg acg ggc cat ccc gaa tat gat gcg 720

Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala

225

230

235

240

caa acg ctg gcg cag gaa ttt ttc cgc gat gtg gaa gcc gga cta gac 768

Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp

245

250

255

ccg gat gta ccg tat aac tat ttc ccg cac aat gat ccg caa aat aca 816

Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr

260

265

270

ccg cga gcg agc tgg cgt agt cac ggt aat tta ctg ttt acc aac tgg 864

Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp

275

280

285

ctc aac tat tac gtc tac cag atc acg cca tac gat cta cgg cac atg 912

Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met

290

295

300

aat cca acg ctg gat taa

930

Asn Pro Thr Leu Asp

305

310

<210> 2

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<212> PRT

<213> Escherichia coli

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<400> 2

Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg

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20 25 30

Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile

35 40 45

Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln

50 55 60

Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr

65 70 75 80

Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln

85 90 95

Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu

100 105 110

Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu

115 120 125

Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala

130 135 140

Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg

145 150 155 160

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Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His

165

170

175

Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser

180

185

190

Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu

195

200

205

Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser

210

215

220

Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala

225

230

235

240

Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp

245

250

255

Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr

260

265

270

Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp

275

280

285

Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met

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295

300

Asn Pro Thr Leu Asp

305

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<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotide metAfw

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<210> 4

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

metArev

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<210> 5

<211> 33

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

GAPDHfw

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33

<210> 6

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

GAPDHrevII

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<210> 7

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<212> DNA

<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Oligonucleotide

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<210> 8

<211> 47

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

metArev2

<400> 8

acgcgtatgc atccagagct cagtactatt aatccagcgt tggattc

47

<210> 9

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

metAmutfw1

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<400> 9

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25

<210> 10

<211> 23

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

metAmutrev1

<400> 10

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23

<210> 11

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

metAmutfw2

<400> 11

nnnggtttga ttgtaactgg tgcg

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<210> 12

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Oligonucleotide

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<400> 12

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